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WHAT IS CLAIMED IS:

- 1. A method for preparing a heat-resistant thermoplastic resin composition having an excellent heat stability comprising the steps of:
- a) a preparing graft ABS polymer through emulsion polymerization by comprising:
 - i) 40 to 70 wt parts of conjugated diene rubber latex;
 - ii) 15 to 40 wt parts of aromatic vinyl compound; and
 - iii) 5 to 20 wt parts of vinyl cyanide
- b) a preparing copolymer having heat-resistant through mass polymerization by comprising:
 - $i\,$) 50 to 80 wt parts of aromatic vinyl compound; and
 - ii) 20 to 50 wt parts of vinyl cyanide; and
 - c) a mixing the graft ABS polymer and the copolymer having heatresistance.
 - 2. The method according to claim 1, wherein the conjugated diene rubber latex of a) i)step has $2500 \sim 5000$ Å of average particle size, and $70 \sim 95$ % of gel content, and $12 \sim 30$ of swelling index.
 - 3. The method according to claim 1, wherein the graft rate of graft ABS polymer of a) step is over 26%.
 - 4. The method according to claim 1, wherein the molecular structure of heat-resistant copolymer of b) step comprises less than 15% chain of alphamethyl styrene-alphamethyl styrene-alphamethyl styrene (AMS-AMS-AMS), and less than 40% chain of alphamethyl styrene-acrylonitrile-acrylonitrile (AMS-AN-AN).
 - 5. The method according to claim 1, wherein the conjugated diene rubber latex of a) i)step is an aliphatic conjugated diene compound mixture, or a mixture of the aliphatic conjugated diene compound and unsaturated monomer of ethylene-based.
- 6. The method according to claim 1, wherein the aromatic vinyl compound of a) ii) step is selected from the group consisting of styrene, α -

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methyl styrene, o -ethyl styrene, ρ -ethyl styrene, and vinyl toluene.

7. The method according to claim 1, wherein the vinyl cyanide of a)iii)step is selected from the group consisting of acrylonitrile, methacrylonitrile, and ethacrylonitrile.

- 8. The method according to claim 1, wherein the aromatic vinyl compound of b) i)step is selected from the group consisting of styrene, α -methyl styrene, α -ethyl styrene, α -ethyl styrene, α -ethyl styrene, and vinyl toluene.
- 9. The method according to claim 1, wherein the vinyl cyanide of b) ii) step is selected from the group consisting of acrylonitrile, methacrylonitrile, and ethacrylonitrile.
- 10. The method according to claim 1, wherein the mixing ratio of c)step is 20 to 80 wt parts of graft ABS polymer and 80 to 20 wt parts of copolymer having heat-resistance.
- 11. The method according to claim 1, wherein the mixing of c) comprises further an additive selected from the group consisting of antiadditive, oxidation inhibitor, light stabilizer.
- 12. The method according to claim 1, wherein the conjugated diene rubber latex of a) i)step prepared by comprising the steps of:

first, reacting for $7\sim12$ hrs at $50\sim65$ °C by adding in a lump 100 wt parts of conjugated diene, $1\sim4$ wt parts of emulsifier, $0.1\sim0.6$ wt parts of polymerization initiator, $0.1\sim1.0$ wt parts of the electrolyte, $0.1\sim0.5$ wt parts of the molecular weight controlling agent, and $90\sim130$ wt parts of the ion exchange water in polymerization reactor;

preparing the conjugated diene rubber latex having a small diameter, which is that average particle diameter $60\sim1500$ Å, the gel content is $70\sim95$ %, the swelling index is $12\sim30$, by the second reacting for $5\sim15$ hrs at $55\sim70$ °C by further adding in a lump $0.05\sim1.2$ wt parts of the molecular weight controlling agent; and

preparing the conjugated diene rubber latex having a large diameter, which is that average particle diameter 2500~5000 Å, the gel content is 5

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 $70\sim95$ %, the swelling index is $12\sim30$, by increasing the particle and followed by stopping of stirring by adding under stirring for 1 hr $2.5\sim4.5$ wt parts of aqueous of solution of acetic acid in 100 wt parts of the conjugated diene rubber latex having a large diameter.

13. The method according to claim 1, wherein graft ABS polymer of a)step prepared by comprising the steps of:

by adding

- i) 40 to 70 wt parts of conjugated diene rubber latex;
- ii) 15 to 40 wt part of aromatic vinyl compound;
- iii) 5 to 20 wt part of vinyl cyanide compound:
- iv) 0.2 to 0.6 wt parts of emulsifier;
- v) 0.2 to 0.6 wt parts of the molecular weight controlling agent; and
- vi) 0.1 to 0.5 wt parts of the polymerization initiator

in polymerization reactor, and

by graft copolymerizing under condition of 45 to 80 ℃ of polymerization temperature and 3 to 5 hrs of the polymerization time.

- 14. The method according to claim 13, wherein the method of adding is selected from the group consisting of addition method in a lump, multi-step addition method, and continuous addition method.
- 15. The method according to claim 13, wherein the emulsifier is at least one selected from the group consisting of alkyl aryl sulfonate, alkalimetal alkyl sulfate, sulfonated alkyl ester, soap of fatty acid, and alkali salts of rosinate.
- 16. The method according to claim 13, wherein the polymerization initiator is at least one selected from the group consisting of cumene hydroperoxide, disoprpyl benzene hydroperoxide, persulafate, sodium formaldehyde sulfoxylate, sodium ethylene diamine tetraacatate, ferrous sulfate, dextrose, sodium pyrrolinate, sodium sulfite.
- 17. The method according to claim 1, wherein the heat-resistant copolymer of b)step prepared by comprising the steps of:

30 by mixing

- i) 50 to 80 wt part of aromatic vinyl compound;
- ii) 20 to 50 wt part of vinyl cyanide compound;
- iii) 26 to 30 wt parts of solvent; and
- iv) 0.1 to 0.5 wt parts of the molecular weight controlling agent
- in polymerization reactor, and